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EXAMINER

BASHORE, WILLIAM L

ART UNIT

PAPER NUMBER

2176

DATE MAILED: 07/31/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

**Office Action Summary**

Application No.

10/068,829

Applicant(s)

MATSUOKA ET AL.

Examiner

William L. Bashore

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 25 March 2002.
- 2a) ☒ This action is FINAL. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-20 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-20 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 25 March 2002 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on \_\_\_\_\_ is: a) ☐ approved b) ☐ disapproved by the Examiner.  
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

**Priority under 35 U.S.C. §§ 119 and 120**

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
a) ☐ All b) ☐ Some \* c) ☐ None of:  
1. ☐ Certified copies of the priority documents have been received.  
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).  
\* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).  
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☒ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

**Attachment(s)**

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). \_\_\_\_\_
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) \_\_\_\_\_ 6) ☐ Other: \_\_\_\_\_

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### DETAILED ACTION

1. This action is responsive to communications: original application filed 2/6/2002, drawings filed 3/25/2002. The present application is a continuation (filed under 37 CFR 1.53(b)) of parent case 08/900,421 (now abandoned). Said parent case filed 7/25/1997.
2. Claims 1-20 are pending. Claims 1, 14, 16, 19, 20 are independent claims.

### *Claim Rejections - 35 USC § 102*

3. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in-

- (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effect under this subsection of a national application published under section 122(b) only if the international application designating the United States was published under Article 21(2)(a) of such treaty in the English language; or
- (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that a patent shall not be deemed filed in the United States for the purposes of this subsection based on the filing of an international application filed under the treaty defined in section 351(a).

4. Claims 1, 9, 16 are rejected under 35 U.S.C. 102(e) as being anticipated by Katseff et al. (hereinafter Katseff), U.S. Patent No. 5,822,537 issued October 1998.

**In regard to independent claim 1, Katseff discloses:**

- an audio and a video stream stored in a file server, said streams are a preferred file format for access by a user (Katseff column 5 lines 18-24, column 6 lines 60-67, column 7 lines 1-7, column 8 lines 18-22; compare with claim 1 “retrieving a time-based stream and a motion data stream at the server, each stream comprising frames of data”).

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- synchronizing audio and video portions of a recorded presentation by placing the frames into an audio buffer, and a video buffer (Katseff column 8 lines 60-65, column 9 lines 1-5; compare with claim 1 "*variably buffering one of the time-based data stream and the motion stream to produce two streams having synchronized frames*").

- a multimedia object at a workstation synchronizes the presentation of audio and visual mediums (Katseff column 9 lines 1-5; compare with claim 1 "*using the synchronized frames at the client for playback of synchronized motion and time-based data to a user.*").

**In regard to dependent claim 9,** Katseff discloses a method whereby an information retrieval system sends a retrieval message over a network to a storage and retrieval system, said storage and retrieval system accesses a file server for file retrieval (preferably JPEG Movie Format), and sends the file to the user (Katseff column 6 lines 60-67, column 7 lines 1-7, column 8 lines 40-50; compare with claim 9).

**In regard to independent claim 16,** claim 16 reflects the apparatus used to perform the methods comprising computer readable instructions as claimed in claim 1, and is rejected along the same rationale.

***Claim Rejections - 35 USC § 103***

**5. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:**

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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6. Claims 2, 4, 12, 14, 18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katseff as applied to claim 1 above, and further in view of Shibata, Y., Media synchronization protocols for packet audio-video system on multimedia information networks (hereinafter Shibata), IEEE; January 3-6, 1995 pp.594-601.

In regard to dependent claim 2, with reference to paragraph 2 of the rejection of claim 1, Katseff does not specifically teach a method whereby the variably buffering occurs at server. However, Shibata teaches a method whereby a rate control message is sent to a server, said server dynamically updating the current frame rate, including its parameters (Shibata p. 596, Frame rate control; compare with claim 2, "...at the server."). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the server participation method of Shibata to the buffer method of Katseff, because of Shibata's taught advantage of server interaction, providing increased equitable workload to the buffer method as disclosed by Katseff.

In regard to dependent claim 4, Katseff teaches a method whereby an audio and a video stream is stored in a file server, said streams are a preferred file format for access by a user, and said files transferred from server to a workstation client (Katseff column 5 lines 18-24, column 6 lines 60-67, column 7 lines 1-7, column 8 lines 18-22, Figure 1).

Katseff does not specifically teach a method where transfer of data values for a frame occurs only for a frame that has changed since a last frame was transmitted. However, Shibata discloses a method whereby audio data is sent from the video server to the client station only during a "*talk spurt*", with constant frame rates occurring during periods of audio silence (Shibata p.597, 4.3 Silence detected synchronization; compare with claim 4). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the method of Shibata to the method of Katseff, because of Shibata's taught advantage of selected data

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transmission, providing increased file size and transmission reduction of the audio and video buffering method as disclosed by Katseff.

In regard to dependent claim 12, claim 12 incorporates substantially similar subject matter as claimed in claim 1, and in further view of the following, is rejected along the same rationale.

Claim 12 “*wherein the time-based data is a pre-recorded audio track...*” is rejected using the same arguments presented in the rejection of claim 1.

Claim 12 “*...and the method further includes synchronizing playback of the pre-recorded audio track*” and “*buffering of the pre-recorded audio track...*” is rejected using the same arguments presented in the rejection of claim 1.

Claim 12 “*...to allow for coupling with motion data generated in time with the playback of the pre-recorded audio track*” is rejected using the same arguments presented in the rejection of claim 1.

Katseff does not specifically teach a method of implementing the subject matter mentioned in the above three paragraphs at a server. However, Shibata teaches a frame rate control method implemented on both the client and server-side of a network, whereby a client rate control message is sent to the server, at which time the server adjusts its own frame rate (Shibata, pp.595-596 System Architecture, paragraph 5, and p.596 Frame rate control; compare with claim 12 “*...at the server...*”). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the server method of Shibata to the methods of Katseff, because of Shibata’s taught advantage of server control, providing increased equitable workload to the video method as disclosed by Katseff.

**In regard to independent claim 14, Katseff teaches:**

- an audio and a video stream is stored in a file server, said streams are a preferred file format for access by a user, and said files transferred from server to a workstation client (Katseff column 5 lines 18-24, column 6 lines 60-67, column 7 lines 1-7, column 8 lines 18-22, Figure 1).

- Katseff does not specifically teach a method whereby a last data value for each channel in each frame transmitted over the network is stored. However, Shibata teaches a method whereby a rate controller periodically monitors and stores in RAM a current frame rate, a number computed by frames/seconds (Shibata p.596 Frame rate control, column 1; compare with claim 14 *"storing a last data value for each channel in each frame transmitted over the network"*). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the frame rate monitoring method of Shibata to the method of Katseff, because of Shibata's taught advantage of periodic monitoring, providing increased continuous monitoring of the audio and video buffering method as disclosed by Katseff.

- an audio and a video stream is stored in a file server, said streams are stored as synchronized JPEG Movie Files for access by a user, and said files transferred from server to a workstation client (Katseff column 5 lines 18-24, column 6 lines 60-67, column 7 lines 1-7, column 8 lines 18-22, Figure 1; compare with claim 14 *"retrieving new synchronized frames for transmission over the network"*).

Claim 14 *"packaging and transmitting over the network only data for channels having changed data values"*, is rejected using the same argument and rationale presented for the current rejection of claim 4.

**In regard to dependent claim 18, claim 18 reflects the apparatus used to perform the methods comprising computer readable instructions as claimed in claim 14, and in further view of the following, is rejected along the same rationale.**

With reference to paragraph 1 of the rejection of claim 14, Katseff does not teach an apparatus to hold data values last transmitted over a network. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Katseff to incorporate a storage device to hold data values, because secondary storage devices (ie. disk arrays) are disclosed as examples of suggested storage devices that can be used to hold data (Katseff, column 4 lines 61-64; compare with claim 18 “...*a storage device...for storing data values...*”). Applying a storage device provides increased data persistence to the audio/video streaming method as disclosed by Katseff..

7. **Claim 3 is rejected under 35 U.S.C. 103(a) as being unpatentable over Katseff as applied to claim 1 above, and further in view of Baumgartner et al. (hereinafter Baumgartner), U.S. Patent No. 5,642,171 issued June 1997. .**

**In regard to dependent claim 3**, with reference to paragraph of the rejection of claim 1, Katseff does not teach a method whereby a difference between the delay for the audio and motion data stream to determine which stream is faster is calculated. However, Baumgartner teaches a method whereby a current video frame number is subtracted from a current audio frame number to determine if the audio is too far ahead of the video (Baumgartner column 13 lines 60-67, column 14 lines 1-2; compare with claim3). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the difference calculation method of Baumgartner to Katseff, because of Baumgartner’s taught advantage of audio/video comparison, providing increased time synchronization to the server buffer method disclosed by Katseff.



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8. **Claims 5, 13 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katseff, as applied in claim 1 above.**

**In regard to dependent claim 5,** Katseff teaches a method of storing and distributing multimedia objects over a network (Katseff, column 2 lines 8-12). Katseff does not specifically teach a method of using the Internet for object distribution. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Katseff to incorporate the Internet for object transmission, because an internet is disclosed as an example of suggested types of networks that can be used (Katseff, column 3 lines 58-63; compare with claim 5). Applying this form of network provides increased communication range to the distribution method disclosed by Katseff.

**In regard to dependent claim 13,** claim 13 incorporates substantially similar subject matter as claimed in claim 1, and in further view of the following, is rejected along the same rationale.

With reference to paragraph 3 of the rejection of claim 1, Katseff does not teach a method of sequencing output for ordered playback of the synchronized frames. However, it would have been obvious to one of ordinary skill in the art at the time of the invention to modify Katseff to incorporate the method of sequenced output for ordered playback, because forward and reverse playback of videos is disclosed as examples of videos resulting from the implementation of the invention disclosed by Katseff (Katseff, column 14 lines 13-19; compare with claim 13 “...sequencing...”, and “...to provide for ordered playback of the synchronized frames to a user at the client.”). Applying the method of an ordered sequence to the playback of a video file provides increased organization to the method disclosed by Katseff.

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9. **Claims 6, 7, 10, 17, 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katseff as applied to claims 1 and 16 above, and further in view of Durward et al. (hereinafter Durward), U.S. Patent No. 9,950,202 issued September 1999.**

**In regard to dependent claim 6,** Katseff teaches a method whereby an audio and a video stream is stored in a file server, said streams are a preferred file format for access by a user (Katseff column 5 lines 18-24, column 6 lines 60-67, column 7 lines 1-7, column 8 lines 18-22). Katseff does not specifically teach a method whereby motion data is mapped to control movement of a virtual figure displayed in a scene at the client. However, Durward teaches a method whereby updated positional data from a person's head position sensor is mapped and used to determine the position of a virtual being defined for that user, communicating graphical data to the user (Durward, column 6 lines 29-32, column 7 lines 12-20; compare with claim 6). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the virtual position data of Durward to the method of Katseff, because of Durward's taught advantage of three dimensional position mapping, providing increased spatial imagery to the video stream method as disclosed by Katseff.

**In regard to dependent claim 7,** with reference to the rejection of claim 6, Katseff does not specifically teach a method of using a body suit for generating motion data. However, Durward teaches a method of sensing position data with the use of a body suit (Durward, column 3 line 25-33; compare with claim 7). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the body suit method of Durward to the method of Katseff, because of Durward's taught advantage of three dimensional physical contour mapping, providing increased spatial image accuracy to the video stream method as disclosed by Katseff.

**In regard to dependent claim 10**, with reference to the rejection of claim 6, Katseff does not specifically teach a method of using voice data as time-based data. However, Durward teaches a method of assigning sound data as voice data (Durward, column 7 line 53-57; compare with claim 10). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the voice data method of Durward to the method of Katseff, because of Durward's taught advantage of voice mapping, providing increased aural communication to the audio method as disclosed by Katseff..

**In regard to dependent claim 17**, with reference to paragraph 3 of the rejection of claim 1, Katseff does not specifically teach an apparatus whereby synchronized motion/time-based data is multicasted to clients in a network. However, Durward teaches an apparatus whereby users log on to a system via modems, said users data is shared with other users and continuously updated so as to create a virtual reality world (Durward, column 8 lines 22-24, 41-64, Figure 1; compare with claim 17). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the data sharing method of Durward to the method of Katseff, because of Durward's taught advantage of consistent data sharing, providing continuous updating and increased uniform user awareness in a virtual environment to the method as disclosed by Katseff.

**In regard to independent claim 19**, claim 19 incorporates substantially similar subject matter as claimed in claim 6, and in further view of the following, is rejected along the same rationale.

Katseff teaches a method whereby a multimedia object at a workstation synchronizes the presentation of audio and visual mediums (Katseff column 9 lines 1-5). Katseff does not specifically teach a method of playing back in synchronization with movement of the virtual figure the time-based data. However, Durward teaches a method of assigning sound data to a corresponding virtual space, i.e. the assignment of a user's voice to the voice of the

corresponding virtual being (Durward, column 7 lines 53-60; compare with claim 19 “*playing back in synchronization with movement of the virtual being the time-based data.*”). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the voice data method of Durward to the method of Katseff, because of Durward’s taught advantage of voice mapping, providing increased aural communication to the video method as disclosed by Katseff.

10. **Claims 8, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Katseff as applied to claim 1 above, and further in view of Wasserman et al. (hereinafter Wasserman), U.S. Patent No. 5,812,791 issued September 1998.**

**In regard to dependent claim 8**, with reference to paragraph 1 of the rejection of claim 1, Katseff does not specifically teach a method whereby motion data includes background data used for producing a scene at the server. However, Wasserman teaches a method whereby images are decompressed for the use of textures, or backgrounds with overlays of moving video on the still images (Wasserman, column 6 lines 8-16; compare with claim 8). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the background texture method of Wasserman to the method of Katseff, because of Wasserman’s taught advantage of scenery data inclusion, providing increased visual realism to the video method as disclosed by Katseff.

**In regard to dependent claim 11**, Katseff teaches a method whereby an audio and a video stream is stored in a file server, said streams are a preferred synchronized file format (JPEG Movie File) for access by a user (Katseff column 5 lines 18-24, column 6 lines 60-67, column 7 lines 1-7, column 8 lines 18-22; compare with claim 11 “*...the synchronized data frames include one or more data channels...*”).

Katseff does not specifically teach a method whereby a descriptor packet is transmitted between synchronized frames so that a client may join in progress a multicast of synchronized data frames. However, Wasserman teaches a method of inserting presentation timestamps into an MPEG stream every 0.7 seconds, said time stamps represent times at which a video picture is to be displayed, or starting audio playback times (Wasserman, column 4 lines 37-44; compare with claim 11 "*the server transmitting .... of synchronized data frames.*"). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the timestamp method of Wasserman to the method of Katseff, because of Wasserman's taught advantage of embedded synchronization, providing increased client synchronization accuracy to the video method as disclosed by Katseff.

11. **Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Katseff and Shibata as applied to claim 14 above, and further in view of Wasserman.**

**In regard to dependent claim 15**, claim 15 incorporates substantially similar subject matter as claimed in claim 11, and is rejected along the same rationale.

12. **Claim 20 is rejected under 35 U.S.C. 103(a) as being unpatentable over Katseff and Durward as applied to claims 10 and 17 above, and further in view of Baumgartner.**

**In regard to independent claim 20**, claim 20 incorporates substantially similar subject matter as claimed in claims 1, 10, 16 and 17, and in further view of the following, is rejected along the same rationale.

Claim 20 "*retrieving an audio stream....including frames of data*" is rejected using the same arguments presented in paragraph 1 of the rejection of claims 1 and 10.

Katseff teaches a method whereby an audio and a video stream is stored in a file server, said streams are a preferred file format for access by a user (Katseff column 5 lines 18-24, column 6 lines 60-67, column 7 lines 1-7, column 8 lines 18-22).

Katseff does not specifically teach a method whereby a delay is calculated through a server for a frame of data on each of the streams. However, Baumgartner teaches a method whereby an audio frame number is determined from a query of the corresponding audio frame position, said frame number is used in reference to a starting time index (Baumgartner column 6 lines 45-50, column 13 lines 48-59; compare with claim 20 “*calculating a delay...*” and “*for a frame of data on each of the streams*”). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the frame number method of Baumgartner to the method disclosed by Katseff, because of Baumgartner’s taught advantage of time/frame comparison, providing increased time synchronization to the server buffer method disclosed by Katseff.

Claim 20 “*calculating a difference between the delay....of the two streams is faster*” is rejected using the same argument presented for the current rejection of claim 3.

Additionally, with reference to paragraph 3 of the present rejection, Katseff does not specifically teach a method whereby the faster stream is buffered, resulting in synchronized streams. However, Baumgartner teaches a method whereby audio is adjusted if it is determined that the audio is too far ahead of the video, or the video is adjusted if the video is too far ahead of the audio (Baumgartner column 14 lines 4-7, 15-17; compare with claim 20 “*variably buffering a faster of the streams....having synchronized data frames*”). It would have been obvious to one of ordinary skill in the art at the time of the invention to apply the comparison/adjustment method of Baumgartner to the method disclosed by Katseff, because of Baumgartner’s taught advantage of audio/video speed comparison, providing increased time synchronization to the server buffer method disclosed by Katseff.

Claim 20 “*packaging the synchronized data frames*” is rejected using the same argument presented for the rejection of claim 16.

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Claim 20 "*multicasting the synchronized data frames to one or more clients on a network*" is rejected using the same argument presented for the rejection of claim 17.

Claim 20 "*at each client computer... for display to a user*" is rejected using the same argument presented in paragraph 3 of the rejection of claim 1.

13. **Prior art made of record and not relied upon is considered pertinent to disclosure.**

Miller	U.S. Patent No. 5,974,496	issued	10/1999
Moezzi et al.	U.S. Patent No. 5,850,352	issued	12/1996
Takeuchi	U.S. Patent No. 5,986,633	issued	11/1999
Veltman	U.S. Patent No. 5,481,543	issued	1/1996
Richter et al.	U.S. Patent No. 6,104,706	issued	8/2000
Arazi et al.	U.S. Patent No. 5,966,120	issued	10/1999

Shibata, Y.; Media synchronization protocols for packet audio-video system on multimedia information networks, IEEE, System Sciences Vol 3, pp. 594-601.

Shibata, Y.; A unified media presentation for multimedia information networks, IEEE Parallel and Distributed Systems, 1996, pp.16-21.

***Conclusion***

14. This is a continuation of applicant's earlier Application No. 08/900,421. All claims are drawn to the same invention claimed in the earlier application and could have been finally rejected on the grounds and art of record in the next Office action if they had been entered in the earlier application. Accordingly, **THIS ACTION IS MADE FINAL** even though it is a first action in this case. See MPEP § 706.07(b). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period

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will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no, however, event will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

15. Any inquiry concerning this communication or earlier communications from the examiner should be directed to William Bashore whose telephone number is (703) 308-5807. The examiner can normally be reached Monday through Friday from 11:30 AM to 8:00 PM EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Heather Herndon, can be reached on (703) 308-5186.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (703) 305-3900.

16. Any response to this action should be mailed to:

Commissioner of Patents and Trademarks  
Washington, D.C. 20231

or faxed to:

(703) 746-7239 (for formal communications intended for entry)

or:

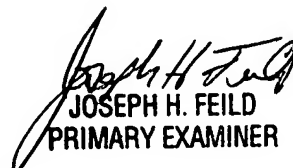
(703) 746-7240 (for informal or draft communications, please label "PROPOSED" or "DRAFT")

or:

(703) 746-7238 (for after-final communications)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Fourth Floor (Receptionist).

William L. Bashore  
07/26/2002

  
JOSEPH H. FEILD  
PRIMARY EXAMINER